

## Eitzen Derby July 4th, 2020

### Minivan Build Rules

1<sup>st</sup> \$1000      2<sup>nd</sup> \$500      3<sup>rd</sup> \$250

Questions call: Mitchell Meyer 507-429-4702

#### General

- Pre-registration \$50
  - Ends June 30<sup>th</sup>, 2020
- Day of registration \$65
- Must be 14 or older
  - Under 18 need parent or guardian signature; parent or guardian MUST be present
- Registration will begin at 9:00 am
- All drivers and crew members must attend the drivers meeting held at 1:45 pm
- Show will start at 2:00 pm
- If vehicle does not pass inspection and/or driver is unwilling or unable to change vehicle to pass inspection, entry fee will not be reimbursed
- Absolutely no additional welding to body or frame other than what's in the rules
- All rules will be followed, or you will not run

#### Vehicles allowed

- Any foreign / domestic, mini vans, compact SUV, quarter ton rated SUV and Pickups
- 4 or 6 cylinder engines only
- Any transmission is allowed
- 2 wheel drive only (remove prop shaft)

#### Personal protective equipment

- Must have working seat belt
- Must have a full face helmet
- Clear or tinted safety glasses
- Fire resistant long sleeve clothing is recommended
- Long sleeve shirts, no t-shirts
- Closed toe shoes are required
- Long pants are required, no shorts

## Fuel cell

- Must use a metal fuel cell
  - If you use a plastic fuel tank, it must be inside of a metal box
  - No plastic fuel cans
  - All lines and connections must be safe and tight
  - Trucks must have fuel cell mounted centered in the front of bed
  - SUVs and vans must have fuel cell mounted in the center of the back seat area
- Fuel cells must be securely mounted
  - Any unsafe fuel setups will not run, officials decisions are final
- Stock fuel tanks must be removed

## Safety Cage

- 4 point cage is recommended, dash bar and seat bar, with connecting door bars
- No down bars or kickers
- Dash bar
  - No bigger than 6" tubing
  - Required if the dash is removed
  - Shall not be up against the firewall bulkhead
- Seat bar
  - Required to run
    - Mounted to door posts behind front seat
  - No bigger than 6" tubing
  - Must be no further than 12" from back of seat
    - This will be measured from back of seat to back side of seat bar
  - Must be at least 12" above the floor
- Door bars
  - May be up to 8" channel
  - Must connect to all bars being used for the cage
  - Must not extend forward past firewall bulkhead
  - Must remain inside the cab of trucks
  - Must not extend past where the wheel wells start for SUVs and minivans
- Rollover bars
  - Recommended but cannot act as a brace in any way to strengthen truck
  - Cannot tie into frame in any way

- Fuel cell protector
  - Highly recommended
  - Mounted to the rear of the seat bar protector off of seat bar centered in the vehicle
    - If you have a gas tank protector your tank must mount to it, you may not bolt tank to floor and have a protector around it
  - SUVs and vans may have a fuel cell protector off of seat bar
    - No wider than 30" and must be at least 4" off all sheet metal
    - Cannot be used to brace anything
  - Trucks may have fuel cell in front of box with protector, nothing excessive
  - You may build a loop off of this protector no more than 4" taller than the tank and may gusset to seat bar or vertical bars of rollover loop
- Battery protector
  - Up to 2 batteries may be used
  - Must be safely mounted in the front passenger area
  - Must be protected
    - Nothing excessive and cannot strengthen the vehicle

NOTE: the cage is for personal safety, not intended to strengthen the vehicle

### Body

- Must remain stock unless stated in the rules
- All glass, plastic and chrome trim must be removed, if it could get peeled off and litter the track, take it off ahead of time, don't make me tell you to take it off
- All interior must be removed, except driver's seat
- Inner fenders may be trimmed, and bolted to fenders, no welding
  - No more than 6 , 3/8" bolts per fender, 2" washers max
- Windshield bar or mesh is recommended for safety
- Must have a 12"x12" roof sign with your number clearly visible
- Must have your number on the side of your vehicle with your number clearly visible
- Body creasing, shaping, pre-bending is allowed
- Body mounts may be replaced with all thread
  - 1" threaded rod max
    - No welding to frame
  - Washers may be no bigger than 4"x4" by 1/4" thick
  - Body mounts must remain in stock locations, no adding of body mounts anywhere
  - Must have at least a 1" spacer between body and frame
    - No larger than 3" diameter
    - Must not be welded to frame or body
  - Core support
    - On actual minivans, only 2 threaded rods may go through core support and may be welded or bolted to k frame or sub, not both
    - Trucks and SUVs may bolt only no welding
      - May go through frame or factory core support mount

- Doors
  - Must be secured shut with one of the following ways
    - No more than 2 tight chains per vertical seam
    - 9 wired shut with 2 spots per vertical door seam
    - Welded shut using 2"x4" or 3"x3" plates no more than 8 total per door
    - Driver door may be welded solid
- Hood
  - Must be open for inspection
  - Must have a 12" hole cut in case of fire
  - May bolt or weld angle iron to fenders and hood and bolt them together
    - Up to 2" angle may be used, and up to 5" long
  - May be tied down in up to 6 total locations, 4 minimum, using wire, chains or bolts
    - No less than 4 spots, factory hinges do not count
  - 2 may be the core support bolts, as previously stated, and may be welded to frame
    - 2 washers not larger than 4" may be welded to top of core support to hold bolts in place
    - Must go straight down
  - 4"x4" by ¼" thick hood washers max
  - Tight chains that can be undone for inspection
  - Hood skins may be bolted together with 12 3/8<sup>th</sup> bolts
    - 2" washers max
- Truck boxes
  - May be welded OR bolted to the cab
    - Welded on the outside only with up to 4" wide strap
    - Bolted with up to 8 bolts
      - 1" bolts max
      - 4"x4" washers max
  - Cannot be wedged
- Tailgate
  - May have 2 wire chains per vertical seam, and 4 horizontal to box, 8 total
  - May be removed, welded, wired or chained
    - May weld inside with 2" angle iron and outside with 3" strap, weld 5", skip 5", weld 5", skip 5" ect.
      - 3" wide material max
    - You may not chain, wire and weld; choose one
  - No threaded rod allowed for tailgates
  - No sedagons

## Frame

- Absolutely no additional welding to frame other than what is stated in the rules
- No trailer hitches, must remove mounting brackets completely
- No stuffing metal in frames
- 4 fix-it plates TOTAL, 4"x6" ¼" MAX, nothing larger
  - 2 per frame rail

## Bumpers

- Any stock full size car front bumpers are allowed
  - You may seem weld
  - No stuffing
  - Chrysler pointy bumpers are not allowed
  - Rear bumper must stay the stock bumper that came with the vehicle, or removed
  - Must chain both front and back the bumper to keep it from falling off
    - Chain may be bolted or welded to frame
  - If you cannot obtain a full size car bumper, you may use steel tubing as followed
    - 3"x6" square or 3" round tubing ¼" thick MAX, no longer than the width of the vehicle
      - Must not be capped, we have to be able to see though it
    - May use 3"x3" square tubing, 12" long MAX bolted to frame
    - May use collapsed bumper shocks
    - May weld bumper directly to frame with no added metal
      - Must have some means of seeing into frame to verify that the bumper mounts are only 12" long, you may need to cut a 1" hole for inspection, depending on factory holes

## Steering / Suspension

- Must remain stock but you may bolt or weld with 1" max width, ¼" thick steel strap
- May chain suspension, but must be bolted, no welding
- No spring spacers or clamps
- No replacing shocks with tubes, again, must remain stock
- Aftermarket steering columns are allowed
- No reinforcing in any way, any part of steering or suspension parts

## Tires

- Any tire allowed (Ag, forklift, stuffed, foamed, doubled, fluid filled tires ect.)
- No wheel weights or studded tires
- No split rims
- Rims may be full centered with bead protectors
- No outside beadlocks
- Tires may be screwed to rims

## Drivetrain

- Engine
  - NO engine cradles
  - Carburetor and distributor protectors are allowed
  - Any other type of protector or brace shall not be used
  - Aluminum motor mounts may be swapped for steel, no welding
  - Must run radiator and be in factory location or looped hoses
    - Homemade radiators are allowed but be no more than ¼" thick
      - Must not strengthen in any way
      - Bolt, wire or ratchet strap only
        - 6, ½" bolts only
        - Up to 2" washers
      - Absolutely no welding
    - If running factory style radiator, may use up to ¼" thick protector
      - Must not strengthen in any way
      - Must not be larger than radiator
      - Bolt, wire or ratchet strap only
        - 6, ½" bolts only
        - Up to 2" washers
      - Absolutely no welding
  - Switch panels are allowed
  - Any fuel system and ignition system allowed
    - Electric fuel pump must be wired with ignition to shut off with the engine
- Transmission
  - No braces
  - Transmission Oil Coolers are allowed but must be safe and securely mounted in a safe location
  - Any shifter is allowed
  - No slider prop shafts
- Final drive / Differential
  - You may weld gears or use spools
  - Stock lug count to your vehicle

## Brakes

- Must have working brakes at the start of show
- Bolt in pedal setups are allowed but cannot strengthen vehicle
- No pinion brakes

## Appearance

- Vehicle may be painted and decorated with the interest of good taste in mind
- No profanity anywhere on the vehicle
- No inappropriate slogans or logos

NOTE: Keep in mind children will be attending this event

- Vehicles will be impounded after tech and lined up in staging area so they are ready to go once track is clear. This is to keep show rolling and limit hazards in the pits.
- No frame welding or modifications other than what is stated in rules.

Anything more than what is in the rules will be cut. I will do my best to work with people on builds and try to give every van a chance to come and compete. Feel free to call or text me if you have questions, concerns or want clarifications of the rules.

Mitchell Meyer 507-429-4702